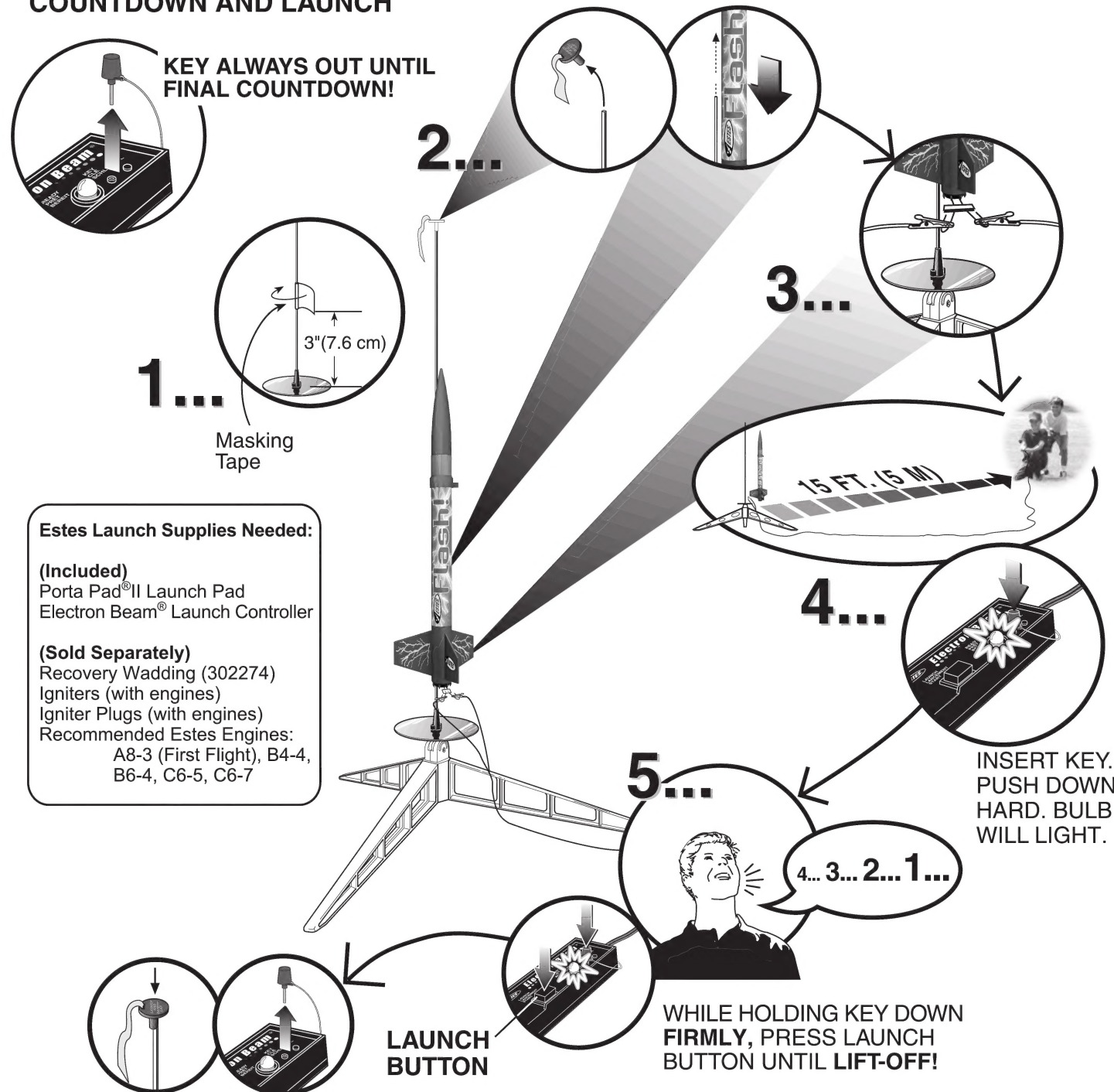


COUNTDOWN AND LAUNCH



Estes Launch Supplies Needed:

(Included)
Porta Pad® II Launch Pad
Electron Beam® Launch Controller

(Sold Separately)
Recovery Wadding (302274)
Igniters (with engines)
Igniter Plugs (with engines)
Recommended Estes Engines:
A8-3 (First Flight), B4-4,
B6-4, C6-5, C6-7

PRECAUTIONS



NAR Safety Code

Please Recycle



Instruction is Recyclable Paper.

PRE-LAUNCH CHECK

For safety, never launch a damaged rocket. Check the rocket's body, nose cone and fins. Also, check the engine mount, recovery system and launch lugs (2). Repair any damage before launching the rocket.

FLYING YOUR ROCKET

Choose a large field (500 ft. [152 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Football fields and playgrounds are great. Launch only with little or no wind and good visibility.

Always follow the enclosed National Association of Rocketry (NAR) SAFETY CODE.

MISFIRES

TAKE THE KEY OUT OF THE CONTROLLER. WAIT ONE MINUTE BEFORE GOING NEAR THE ROCKET! Disconnect the igniter clips and remove the engine. Take the plug and igniter out of the engine. If the igniter has burned, it worked but did not ignite the engine because it was not touching the propellant inside the engine. Put a new igniter all the way inside the engine without bending it. Push the plug in place. Repeat the steps under Countdown and Launch.



NO DRY GRASS OR WEEDS



www.estesrockets.com

ESTES-COX CORP.
1295 H Street,
PO BOX 227
Penrose, CO 81240
PRINTED IN CHINA

ASSEMBLY TIP:

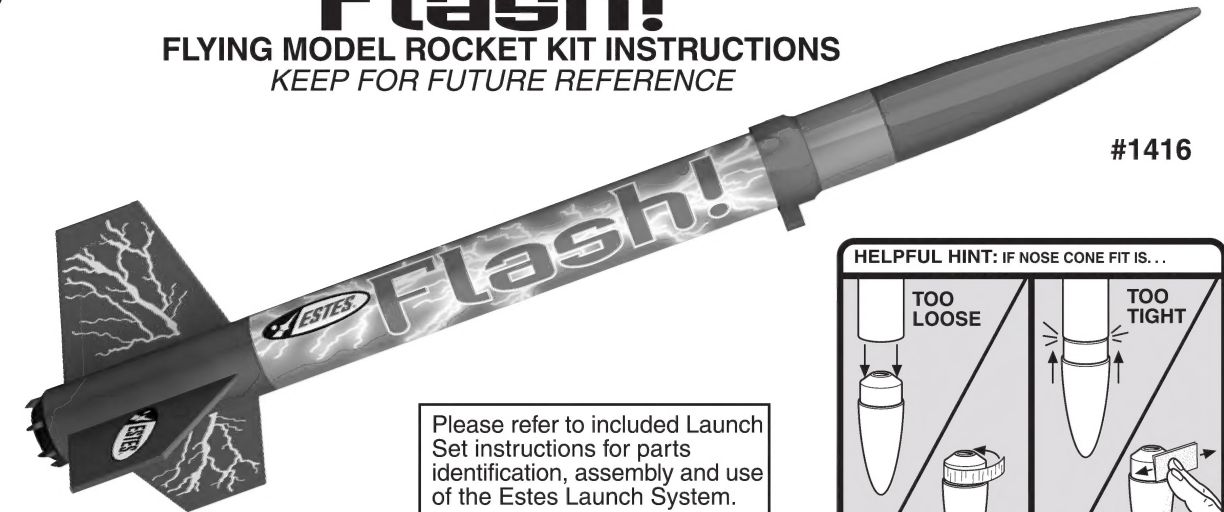
Read all instructions before beginning work on your model. Make sure you have all parts and supplies.

Flash!

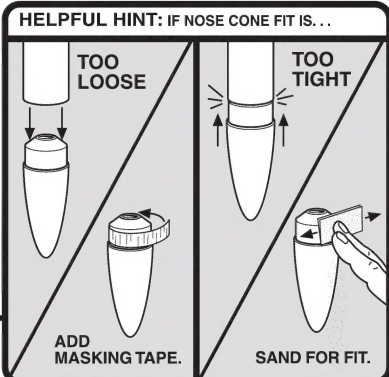
FLYING MODEL ROCKET KIT INSTRUCTIONS

KEEP FOR FUTURE REFERENCE

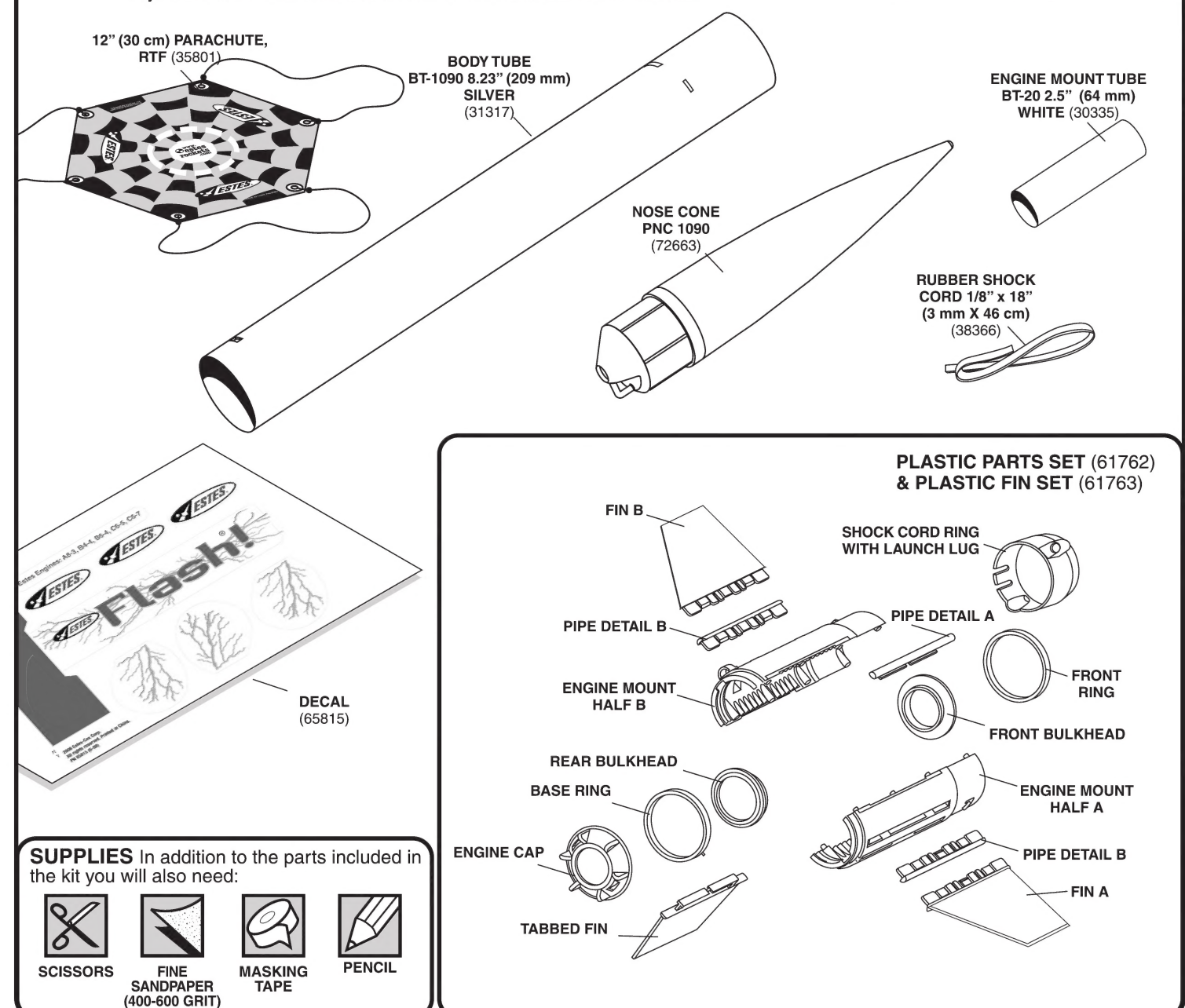
#1416



Please refer to included Launch Set instructions for parts identification, assembly and use of the Estes Launch System.



PARTS Locate the parts shown below and lay them out on the table in front of you. DO NOT USE THIS DRAWING TO ASSEMBLE YOUR ROCKET.



SUPPLIES In addition to the parts included in the kit you will also need:



SCISSORS



FINE SANDPAPER (400-600 GRIT)

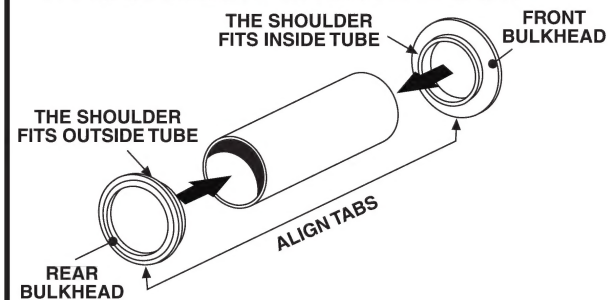


MASKING TAPE

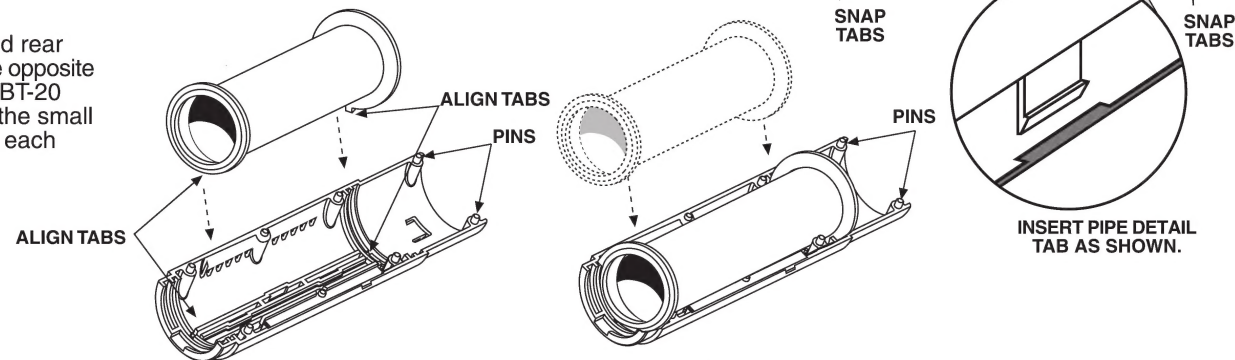


PENCIL

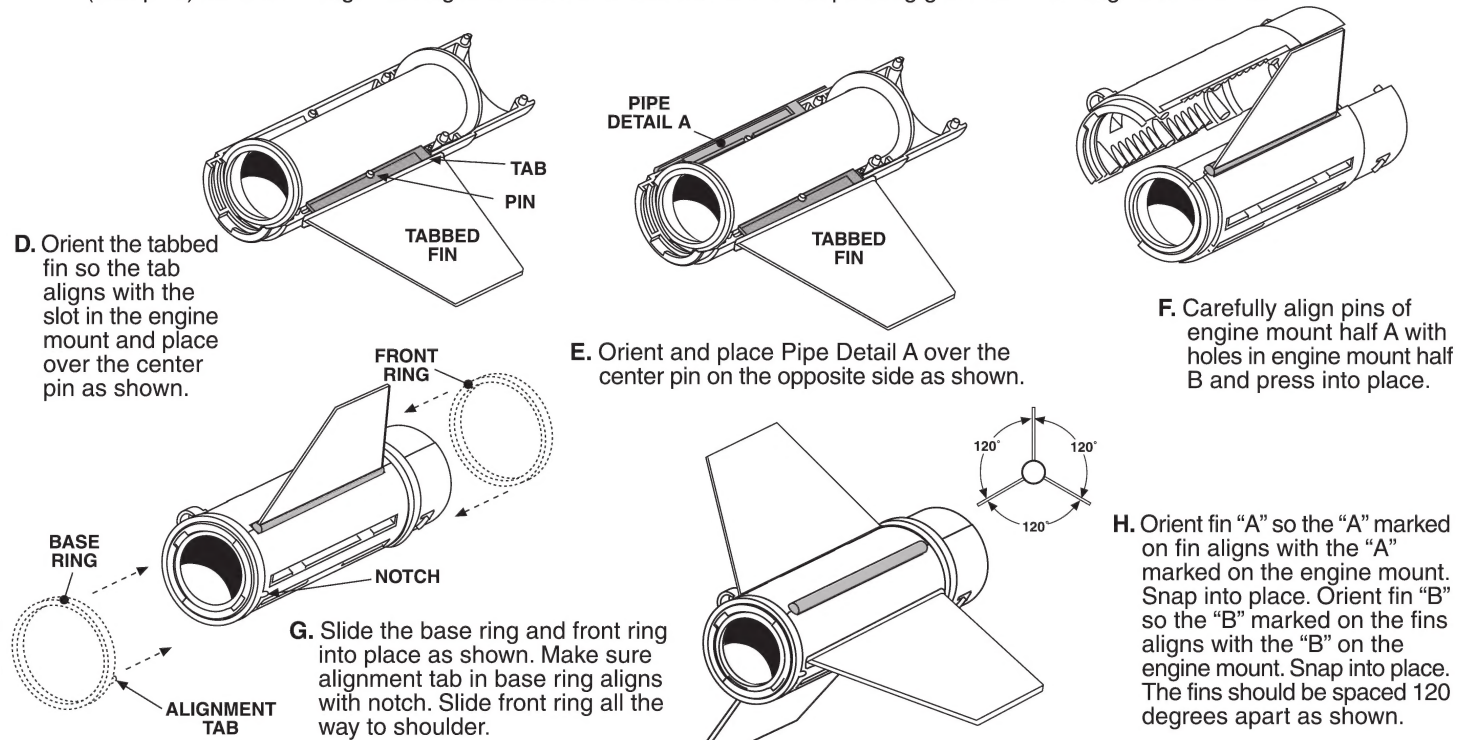
1. ASSEMBLE ENGINE MOUNT



A. Insert the front and rear bulkheads onto the opposite ends of the white BT-20 motor tube. Align the small tabs as shown on each bulkhead.

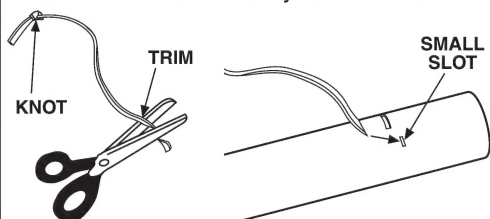


C. Align the tabs on the front and rear bulkheads with notches in engine mount half "A" and insert motor tube into engine mount (with pins) as shown. Align the ridges of each bulkhead with the corresponding grooves in the engine mount half.

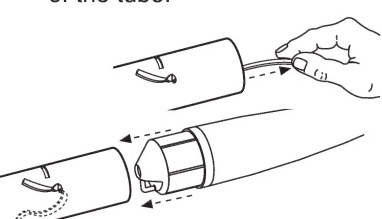


2. INSTALL SHOCK CORD AND LUG

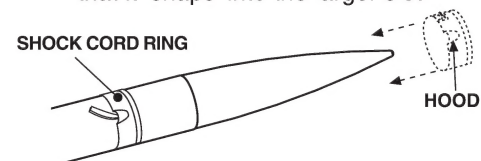
A. Tie knot in one end of the shock cord. Trim the opposite end to form an angle as shown. From the outside of the tube, insert the trimmed end of the shock cord into the smaller slot in the forward end of the body tube as shown.



B. Pull the cord out the front end of the tube until the knot is snug against the outside of the tube. Then place the shock cord and the nose cone into the forward end of the tube.

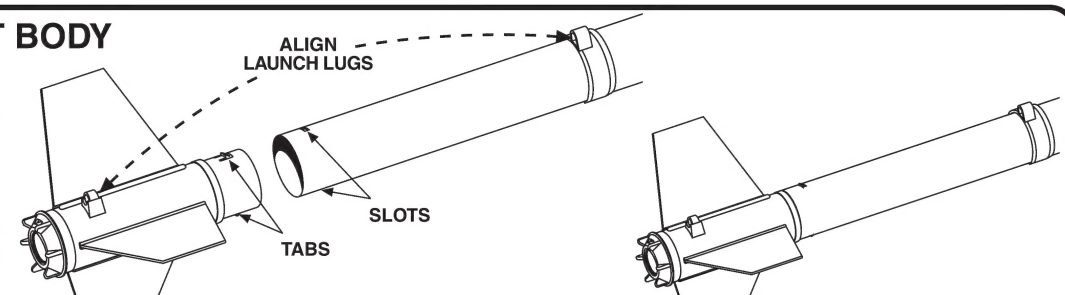


C. Orienting the shock cord ring with the hood toward the rear, slide it over the nose cone and down the body tube so that the hood is over the knot in the shock cord. Twist the ring as needed so that it 'snaps' into the larger slot.



3. ASSEMBLE ROCKET BODY

A. Holding the engine mount assembly so that the launch lug is aligned with the launch lug on the shock cord ring, lower the body tube over the shoulder of the engine mount assembly. Twist the body tube as needed to 'snap' the two slots in the tube over the two tabs on the engine mount assembly.



4. ATTACH PARACHUTE & SHOCK CORD

A. Clean nose cone eyelet by pushing excess material out with the tip of a pencil.

NOTE: Do not cut off nose cone eyelet.

B. Form a loop with the parachute shroud lines.

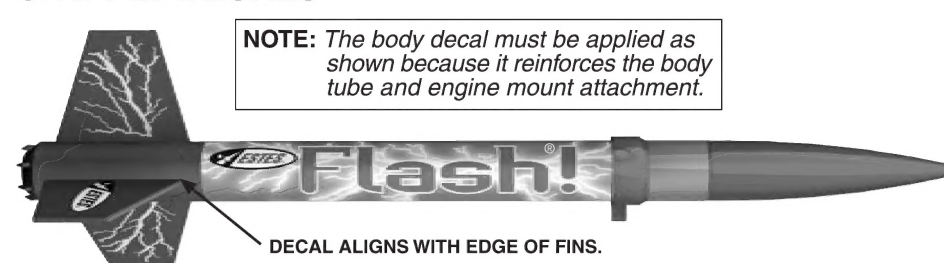
C. Insert the parachute lines through the nose cone eyelet.

D. Pass parachute through loop.

E. Pull parachute lines tight.

F. Tie Shock Cord to nose using a double knot.

5. APPLY DECALS



A. Peel large decal from backing sheet and apply so that rear (left) of decal is even with forward edge of fins, covering seam of engine mount and body tube. Apply other decals on fins where shown. Apply Estes Engines decal on opposite side of body tube.

6. PREPARE RECOVERY SYSTEM

A. Insert 3-4 squares of loosely crumpled recovery wadding into body tube.

B. Spike parachute.

C. Fold.

D. Roll.

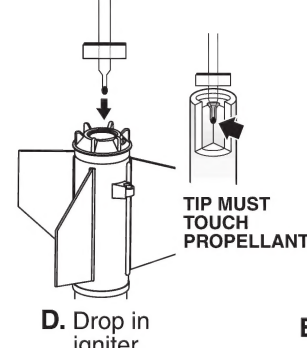
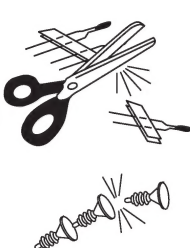
E. Wrap lines loosely. Insert 'chute, shock cord and nose cone into body tube.

NOTE: Only Estes Wadding (302274) recommended.

IMPORTANT: Both recovery wadding and parachute must slide easily into body. (If fit is too tight, undo and repack).

7. PREPARE ENGINE

WARNING: FLAMMABLE
To avoid serious injury, read instructions & NAR Safety Code included with engines before proceeding. **PREPARE YOUR ENGINE ONLY WHEN YOU ARE OUTSIDE AT THE LAUNCH SITE PREPARING TO LAUNCH!** If you do not use your prepared engine, remove the igniter before storing your engine.



A. Insert engine.

B. Twist on engine cap.